

PATENT ABSTRACTS OF JAPAN

(11) Publication number: 09321538 A

(43) Date of publication of application: 12 . 12 . 97

(51) Int. CI

H03B 5/18 H03L 7/099

(21) Application number: 08131839

(22) Date of filing: 27 . 05 . 96

(71) Applicant:

SAITAMA NIPPON DENKI KK

(72) Inventor:

OGINO TORU

(54) VOLTAGE CONTROLLED OSCILLATOR CIRCUIT COPYRIGHT: (C)1997,JPO

(57) Abstract:

PROBLEM TO BE SOLVED: To switch automatically an oscillated frequency band only with data to a pre-scaler and a frequency divider by switching an inductor deciding an oscillation frequency with an output voltage of a comparator circuit inputting a voltage of a variable capacitor at one input and receiving a prescribed voltage at the other input.

SOLUTION: An output voltage V3 of a phase comparator 1 is applied to a variable capacitor 114 to vary an oscillated frequency by the change in the capacitance and a constant oscillated frequency is outputted. When the frequency division data of a control section are changed from one oscillated frequency band into another oscillated frequency band, the output of the phase comparator 1 is suddenly changed. For example, when the data are changed to provide a high voltage largely, the output of a processing 112 is high voltage to make a switching transistor(TR) 113 conductive thereby short-circuiting a strip line inductor 302 and decreasing the inductive component of the oscillation circuit and changing largely the oscillated frequency.

